

## OPINION 1810

*Cryptophagus* Herbst, 1792, *Dorcatoma* Herbst, 1792, *Rhizophagus* Herbst, 1793 and *Colon* Herbst, 1797 (Insecta, Coleoptera): conserved as the correct original spellings, and *Lyctus bipustulatus* Fabricius, 1792 ruled to be the type species of *Rhizophagus*

**Keywords.** Nomenclature; taxonomy; Coleoptera; *Cryptophagus*; *Dorcatoma*; *Rhizophagus*; *Colon*.

**Ruling**

- (1) Under the plenary powers it is hereby ruled that:
  - (a) the correct original spellings of the following generic names are as shown:
    - (i) *Kryptophagus* Herbst, 1792: correctly *Cryptophagus*;
    - (ii) *Dorkatoma* Herbst, 1792: correctly *Dorcatoma*;
    - (iii) *Ryzophagus* Herbst, 1793: correctly *Rhizophagus*;
    - (iv) *Kolon* Herbst, 1797: correctly *Colon*;
  - (b) the designation by Westwood ([1838]) of *Lyctus bipustulatus* Fabricius, 1792 as the type species of *Rhizophagus* Herbst, 1793 is valid.
- (2) The following names are hereby placed on the Official List of Generic Names in Zoology:
  - (a) *Cryptophagus* Herbst, 1792 (gender: masculine), type species by subsequent designation by Westwood ([1838]) *Dermestes cellaris* Scopoli, 1763;
  - (b) *Dorcatoma* Herbst, 1792 (gender: neuter), type species by monotypy *Dorkatoma* [sic] *dresdensis* Herbst, 1792;
  - (c) *Rhizophagus* Herbst, 1793 (gender: masculine), type species by subsequent designation by Westwood ([1838]) *Lyctus bipustulatus* Fabricius, 1792 as ruled in (1)(b) above;
  - (d) *Colon* Herbst, 1797 (gender: neuter), type species by subsequent designation by Thomson (1859) *Kolon* [sic] *viennensis* Herbst, 1797.
- (3) The following names are hereby placed on the Official List of Specific Names in Zoology:
  - (a) *cellaris* Scopoli, 1763, as published in the binomen *Dermestes cellaris* (specific name of the type species of *Cryptophagus* Herbst, 1792);
  - (b) *dresdensis* Herbst, 1792, as published in the binomen *Dorkatoma dresdensis* (specific name of the type species of *Dorcatoma* Herbst, 1792);
  - (c) *bipustulatus* Fabricius, 1792, as published in the binomen *Lyctus bipustulatus* (specific name of the type species of *Rhizophagus* Herbst, 1793);
  - (d) *viennensis* Herbst, 1797, as published in the binomen *Kolon viennensis* (specific name of the type species of *Colon* Herbst, 1797).
- (4) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:
  - (a) *Kryptophagus* Herbst, 1792 (ruled in (1)(a)(i) above to be an incorrect original spelling of *Cryptophagus* Herbst, 1792);
  - (b) *Dorkatoma* Herbst, 1792 (ruled in (1)(a)(ii) above to be an incorrect original spelling of *Dorcatoma* Herbst, 1792);

- (c) *Ryzophagus* Herbst, 1793 (ruled in (1)(a)(iii) above to be an incorrect original spelling of *Rhizophagus* Herbst, 1793);
- (d) *Rhyzophagus* Gyllenhal, 1813 (an incorrect subsequent spelling of *Rhizophagus* Herbst, 1793);
- (e) *Kolon* Herbst, 1797 (ruled in (1)(a)(iv) above to be an incorrect original spelling of *Colon* Herbst, 1797).

### History of Case 2783

An application to conserve the spellings of *Cryptophagus* Herbst, 1792, *Dorcatoma* Herbst, 1792, *Rhizophagus* Herbst, 1793 and *Colon* Herbst, 1797, and to rule *Lyctus bipustulatus* Fabricius, 1792 to be the valid type species of *Rhizophagus*, was received from Dr Hans Silfverberg (*Zoological Museum, Helsinki University, Finland*) on 30 July 1990. After correspondence the case was published in BZN 51: 21–24 (March 1994). Notice of the case was sent to appropriate journals.

A comment in support from Dr R.G. Booth (*International Institute of Entomology, clo The Natural History Museum, London, U.K.*) was published in BZN 51: 256–257 (September 1994). Dr Booth pointed out that 'Dorc.' (probably an abbreviation for *Dorcatoma*) appeared in the text (p. 104) of Herbst's own (1792) work, as well as the spelling *Dorkatoma* which was used as a heading (pp. 103, 104, 105). However, adoption of the spelling *Dorcatoma* without reference to *Dorkatoma* by Paykull (1798) and subsequent authors did not meet the requirements for a first reviser selection (Article 24b of the Code). Dr Booth also mentioned that in 1799 Herbst indexed the names *Colon* and *Cryptophagus*.

### Decision of the Commission

On 1 December 1994 the members of the Commission were invited to vote on the proposals published in BZN 51: 22–23. At the close of the voting period on 1 March 1995 the votes were as follows:

Affirmative votes — 25: Bayer, Bock, Bouchet, Cocks, Corliss, Dupuis, Hahn, Halvorsen, Heppell, Holthuis, Kabata, Kraus, Lehtinen, Macpherson, Mahnert, Martins de Souza, Minelli, Nielsen, Nye, Ride, Savage, Schuster, Štys (part), Thompson, Willink

Negative votes — none.

No votes were received from Cogger, Starobogatov, Trjapitzin and Uéno.

Štys voted for the conservation of the spellings of Herbst's generic names currently in use but did not agree with the type species fixation for *Rhizophagus*; he commented: 'I do not see why the Commission's plenary powers should be used to uphold the invalid designation of *Lyctus bipustulatus* Fabricius, 1792 as the type of *Rhizophagus*, rather than selecting its junior subjective synonym *R. bipunctatus* Herbst, 1793 which was one of the originally included species (para. 4 of the application)'.

### Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

*bipustulatus*, *Lyctus*, Fabricius, 1792, *Entomologia Systematica emendata et aucta*, vol. 1, part 2, p. 503.

- cellaris*, *Dermestes*, Scopoli, 1763, *Entomologia Carniolica*, p. 16.
- Colon* Herbst, 1797, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 7, p. 224 (incorrectly spelled as *Kolon*).
- Cryptophagus* Herbst, 1792, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 4, p. 172 (incorrectly spelled as *Kryptophagus*).
- Dorcatoma* Herbst, 1792, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 4, p. 103 (incorrectly spelled as *Dorkatoma*).
- Dorkatoma* Herbst, 1792, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 4, p. 103 (an incorrect original spelling of *Dorcatoma*).
- dresdensis*, *Dorkatoma*, Herbst, 1792, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 4, p. 104.
- Kolon* Herbst, 1797, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 7, p. 224 (an incorrect original spelling of *Colon*).
- Kryptophagus* Herbst, 1792, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 4, p. 172 (an incorrect original spelling of *Cryptophagus*).
- Rhizophagus* Herbst, 1793, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 5, p. 18 (incorrectly spelled as *Ryzophagus*).
- Rhizophagus* Gyllenhal, 1813, *Insecta suecica descripta. Classis I. Coleoptera sive Eleuterata*, vol. 1, part 3, p. 420.
- Ryzophagus* Herbst, 1793, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 5, p. 18 (an incorrect original spelling of *Rhizophagus*).
- viennensis*, *Kolon*, Herbst, 1797, *Natursystem aller bekannten in- und ausländischen Insekten*. Der Käfer, part 7, p. 225.

The following is the reference for the designation of *Dermestes cellaris* Scopoli, 1763 as the type species of the nominal genus *Cryptophagus* Herbst, 1792, and *Lyctus bipustulatus* Fabricius, 1792 as the type species of the nominal genus *Rhizophagus* Herbst, 1793:

**Westwood, J.O.** [1838]. *Synopsis of the genera of British insects*, p. 13. Published with *An introduction to the modern classification of insects ...*, vol. 1, part 1. Pp. 1-48.

The following is the reference for the designation of *Kolon* [sic] *viennensis* Herbst, 1797 as the type species of the nominal genus *Colon* Herbst, 1797:

**Thomson, C.G.** 1859. *Skandinaviens Coleoptera, synoptiskt bearbetade*, vol. 1, p. 60.